

Docket No. CM00441C

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A wireless zone-based communication system comprising a plurality of zones being served with short data capabilities by a plurality of short data routers, wherein the plurality of short data routers are operably coupled to a plurality of zone controllers, the wireless zone-based communication system being characterised by:

at least one zone controller of said plurality of zone controllers being operable to transmit a multicast message to a plurality of said short data routers such that at least one short data router of the plurality of said short data routers is operable to generate or update information relating to mobility or location of mobile communication units that are operational in the at least one zone that the short data router serves, wherein at least one of the short data routers is operable to act as a short data router to serve one of the zones and to act as a back-up short data router for another short data router in at least part of another zone served by that other short data router using back-up information received in the multicast message from the at least one zone controller.

2. (currently amended) The wireless zone-based communication system according to Claim 1, wherein the information relates to mobility or location of the mobile communication units and the plurality of said short data routers are operable to generate or update mobility information relating to said mobile communication units using the received information.

3. (previously presented) The wireless zone-based communication system according to claim 1, wherein the plurality of said short data routers are operable to generate or update information relating to said mobile communication units that are operational in the at least one zone that the plurality of said short data routers serve as at least one of primary, secondary (standby) and load sharing short data routers.

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4. (previously presented) The wireless zone-based communication system according to claim 1, wherein the at least one zone controller is operable to transmit a multicast message to a multicast group address identifying a group joined by said at least one short data router.

5. (previously presented) The wireless zone-based communication system according to claim 1, wherein the at least one short data router is operable to utilise a location query mechanism to minimise inaccuracies in the multicast message.

6. (previously presented) The wireless zone-based communication system according to claim 5, wherein the location query mechanism includes said at least one short data router being operable to query directly at least one of a zone controller's home location register and a visitor location register to obtain mobile unit mobility information when inaccurate mobility information has been received in the multicast message.

7. (previously presented) The wireless zone-based communication system according to claim 1, wherein said multicast message comprises an Internet Protocol (IP) mobility message to maintain synchronised IP address records of mobile communication units operating in the wireless zone-based communication system.

8. (previously presented) The wireless zone-based communication system according to claim 1, wherein said communication system is a trunked radio system.

9. (previously presented) The wireless zone-based communication system according to claim 8, wherein said communication system is operable in accordance with TETRA standard procedures.

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10. (currently amended) A method for improving redundancy provision in a wireless zone-based communication system comprising a plurality of zones being served with short data capabilities by a plurality of short data routers, wherein the plurality of short data routers are operatively coupled to a plurality of zone controllers, the method being characterised by the steps of:

transmitting a multicast message from at least one zone controller of the plurality of zone controllers to a plurality of short data routers;

receiving said multicast message by at least one of said plurality of short data routers;
and

generating, by said at least one short data router, at least one mobility database for mobile units that are operational in the one or more zones served by said short data router, wherein at least one of the short data routers is operable to act as a short data router to serve one of the zones and to act as a back-up short data router for another short data router in at least part of another zone served by that other short data router using back-up information received in the multicast message from the at least one zone controller.

11. (previously presented) The method according to claim 10, wherein the step of generating one or more mobility databases is performed by said short data router serving as at least one of a primary, a secondary (standby) and a load sharing short data router.

12. (previously presented) The method for improving redundancy provision in a wireless zone-based communication system according to claim 10, wherein the step of transmitting includes transmitting a multicast message to a multicast group address identifying a group joined by said at least one short data router.

13. (previously presented) A zone controller adapted to transmit a multicast message to a plurality of said short data routers in a communication system according to claim 1.

14. (previously presented) A short data router adapted to receive a multicast message from a zone controller in a communication system according to claim 1.

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15. (New) The wireless zone-based communication system according to Claim 1, wherein each of the plurality of short data routers is operable normally to serve one or more zones and, in the event of overload or failure of another short data router and using the information received in the multicast message, as a back-up to the other short data router to serve one or more additional zones normally served by the other short data router.

16. (New) A short data router according to Claim 14 and further adapted to act as a back-up short data router for another short data router in at least part of a zone served by that other short data router using information received by multicast transmission from at least one zone controller of the system .